

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: January 8, 2002, 21:37:54 ; Search time 108.09 Seconds  
(without alignments)  
10802.821 Million cell updates/sec

Title: US-09-635-521A-1

Perfect score: 1362

Sequence: 1 atggttcacccagctccc.....ttcaggagcagtgatttga 1362

Scoring table:

IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 930621 seqs, 42862619 residues

number of hits satisfying chosen parameters: 1861242

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : - N\_Geneseq\_1101.\*

1: /SIDS2/gcgdata/geneseq/geneseq/NA1980.DAT.\*  
2: /SIDS2/gcgdata/geneseq/geneseq/NA1981.DAT.\*  
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19: /SIDS2/gcgdata/geneseq/geneseq/NA1998.DAT.\*  
20: /SIDS2/gcgdata/geneseq/geneseq/NA1999.DAT.\*  
21: /SIDS2/gcgdata/geneseq/geneseq/NA2000.DAT.\*  
22: /SIDS2/gcgdata/geneseq/geneseq/NA2001.DAT.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	508.6	37.3	1953	21	AAF22400
2	508.6	37.3	1956	22	AAF64188
3	497.6	36.5	1890	22	AAF93845
4	236.6	17.4	587	22	AAF94186
5	165.2	12.1	1254	17	AAT33127
6	158.6	11.6	444	22	AAH50766
7	102.6	7.5	1203	22	AAF85448
8	97.6	7.2	1551	21	AAZ49491
9	97.6	7.2	1575	19	AAV07655
10	97.6	7.2	2850	21	AAZ49492
11	96.2	7.1	1092	21	AAZ45405

12	96.2	7.1	1092	22	AAF85450	Nucleotide sequenc
13	95.8	7.0	1342	19	AAF62449	Human neurotensin
14	89.4	6.6	729	22	AAF85107	Nucleotide sequenc
15	89.4	6.6	801	22	AAH50977	Human nPCR15 codi
16	89.4	6.6	1245	22	AAH43072	Nucleotide sequenc
17	89.4	6.6	1245	22	AAH43075	Nucleotide sequenc
18	89.4	6.6	1248	21	AAH01123	Nucleotide sequenc
19	89.4	6.6	1248	21	AAH46022	Human orphan G pro
20	89.4	6.6	1248	21	AAH49526	Human G protein co
21	89.4	6.6	1298	22	AAH08008	Human GTP-binding
22	89.4	6.6	1360	21	AAZ33297	Human G-protein co
23	89.4	6.6	1594	22	AAF80326	Human neurotensin-
24	89.4	6.6	1594	22	AAF80327	Splice variant of
25	89.4	6.6	1658	22	AAF80322	Nucleotide sequenc
26	89.4	6.6	1658	22	AAF80323	Nucleotide sequenc
27	89.4	6.6	1658	22	AAF80324	Nucleotide sequenc
28	89.4	6.6	1658	22	AAF80325	Nucleotide sequenc
29	82	6.0	1088	18	AAH68664	Human growth hormo
30	82	6.0	1088	18	AAH68666	Human growth hormo
31	82	6.0	1101	21	AAA30643	Human G protein-co
32	82	6.0	1101	21	AAA30732	DNA encoding human
33	82	6.0	1101	21	AAZ51463	Human G protein-co
34	82	6.0	1101	22	AAF83680	Human G-protein co
35	82	6.0	1122	18	AAH68665	Human growth hormo
36	82	6.0	1122	18	AAH69757	Human growth hormo
37	78.6	5.8	836	18	AAH68666	Human growth hormo
38	78.6	5.8	836	18	AAH69758	Human growth hormo
39	77.2	5.7	1092	18	AAH69760	Human growth hormo
40	77.2	5.7	1092	18	AAH27800	Rat growth hormone
41	77.2	5.7	3129	18	AAH68667	Rat growth hormone
42	77.2	5.7	3129	18	AAH69759	Rat growth hormone
43	76.2	5.6	1239	21	AAZ45403	cdNA encoding the
44	76.2	5.6	1239	22	AAF83683	Long form of motil
45	76.2	5.6	1239	22	AAF85449	Nucleotide sequenc

## ALIGNMENTS

RESULT 1	
AAF22400	
ID AAF22400 standard; cdNA; 1953 BP.	
XX AC AAF22400;	
XX DT 26-MAR-2001 (first entry)	
XX DE Human secreted protein gene 28 SEQ ID NO:38.	
XX KW Human; secreted protein; diagnosis; immunosuppressive; antiarthritic;	
XX KW antirheumatic; antiproliferative; cytostatic; cardiant; vasotropic;	
XX KW cerebroprotective; neurotropic; neuroprotective; antibacterial; virucide;	
XX KW fungicide; ophthalmological; gene therapy; autoimmune disease; neoplasm;	
XX KW rheumatoid arthritis; hyperproliferative disorder; cardiac arrest;	
XX KW cardiovascular disorder; cerebrovascular disorder; cerebral ischaemia;	
XX KW angiogenesis; nervous system disorder; Alzheimer's disease; infection;	
XX KW ocular disorder; corneal infection; wound healing; skin aging;	
XX KW food additive; preservative; ss.	
XX OS Homo sapiens.	
XX PN WO200061629-A1.	
XX PD 19-OCT-2000.	
XX PF 06-APR-2000; 2000WO-US09071.	
XX PR 09-APR-1999; 98US-0128694.	
XX PR 20-JAN-2000; 2000US-0176931.	
XX PA (HUMA-) HUMAN GENOME SCI INC.	
XX PA (ROSE/) ROSEN C A.	





1172

1231 TCCAGTCATTGAGTCTCGAGTCTACTAGAGCCCACTCAGCGCGCAACACGCAATCT 117

RESULT	4
AAF94186	
ID	AAF94186 standard; DNA; 587 BP.
XX	
XX	
AC	AAF94186;
XX	
DT	23-MAY-2001 (first entry)

XX Primer specific for DNA encoding secretory/membrane protein SEQ ID 620  
DE  
XX Human; secretory protein; membrane protein; vaccine; gene therapy;  
XX Rheumatoid arthritis; diabetes; PCR primer; ss.  
KW

XX OS synthetic.  
XX PN EP1067182-A2.  
XX 10-788-2001

XX	07-JUL-2000; 2000EP-0114090.
PF	
XX	
XX	
PR	08-JUL-1999; 99JP-0194179.
PR	11-JAN-2000; 2000JP-0118775.
PR	02-MAY-2000; 2000JP-0183766.

PA (HELI-) HELIX RES INST.  
XX  
XX  
XX PI Ota T, Isogai T, Nishikawa T, Kawai Y, Sugiyama T, Hayashi K;  
XX  
XX  
XX WPI: 2001-093989/11.  
XX  
XX  
XX Nucleic acids encoding secretory proteins/membrane proteins, useful in  
XX PT gene therapy or as candidate target molecules in drug development -  
XX  
XX claim 5. SEQ ID 620: 609pp + CD ROM: English.

xx This invention relates to nucleic acid sequences AAF93744 - AAF93916  
cc which encode human secretory or membrane proteins represented by  
cc AAF88317 - AAF88419. Included in the invention are primers  
cc AAF93917 - AAF94295 and AAF62232 - AAF62235 which are used to isolate  
cc cDNA sequences of the invention. The invention also includes methods  
cc for the production of antibodies directed against the proteins, and cDNA  
cc sequences, which can be used in vaccines. The polynucleotide sequences  
cc of the invention are also used in gene therapy. The polynucleotide sequences and the

proteins they encode may be used in the prevention/treatment and diagnosis of diseases associated with inappropriate secretory protein/membrane protein expression. The nucleic acids and complement sequences may also be used as DNA probes in diagnostic assays (e.g. polymerase chain reactions (PCR)) to detect and quantitate the presence of similar nucleic acid sequences in samples. They may also be used to study the expression and function of secretory proteins/membrane polypeptides and their role in metabolism. The polypeptides may be used to study the production of antibodies against them and in assay

identify modulators (agonists and antagonists) of expression and activity. The antibodies and antagonists may also be used as therapeutic agents to down regulate expression and activity. The antibodies may be used as diagnostic agents for detecting the presence of the polypeptides in samples (e.g. by enzyme linked immunosorbant assay (ELISA). Examples of diseases which may be treated include rheumatoid arthritis and diabetes.

Query Match	17.4%	Score	236.6;	DB	22;	Length	587;
Best Local Similarity	85.8%	Pred. No.	1.4e-46;				

```
Qy 106 gtgtacctgatcatcttcgttgatggccttctgtgggaacagccaccattcgggtcacc 165
Db 205 gtgtacctggcgtcttcgttgggacagcgttggaacacagcgtgacggtcgcgttcacgctg 264
Qy 166 caggtgctgcagagaagaagatacttgcagaaagaggtgacagacacacagcgtgagtttg 225
Db 265 gcgcgaagaagtcgtgcagagcctgcagacagcgtgcattaccacacgtggcagcgtg 324
Qy 226 gcttgcgcagacatctgtgttcctcatcgcgcacccatccatgaggtttacagcatc 285
Db 325 gcgcgtgcagacgtcaccctgtcgtcggccatccctggcgtgagctgtacacattc 384
Qy 286 tggatccctgaaccatccagctacacacccctgtcgtcgaagctgcacacatttctcttc 345
Db 385 tgggtgacacacccctggccttcggcagcgcgcgtgcgcgtactacttctctgcgc 444
Qy 346 gaggcctgcagctacgtcgtgcagcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgt 405
Db 445 gagcctgcacctaagcagccctcagcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgt 504
Qy 406 gccatgtcaccccttcaggtacagcgtgtgtcgggacaccttcgaggtgagcgtgtg 465
Db 505 gccatgtcaccccttcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 564
Qy 466 attgcttgcgttggttcacccctcgcgtgtggtgcgtgcgtgcgtgcgtgcgtgcgtgcgt 525
Db 565 atcagcgtcgttcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgtgcgt 624
Qy 526 actgagtcacccctgtgagcgtgcagcagcagcagcagcagcagcagcagcagcagcagc 585
Db 625 gagcagaaccgcagcgcagcgcagcgcagcgcagcgcagcgcagcgcagcgcagcgcagc 684
Qy 586 accgccaccacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 645
Db 685 cacactgcacgc-----tcagagtcgtcata 711
Qy 646 gcgtgagcagcgtgttcacagcagcagcagcagcagcagcagcagcagcagcagcagcagc 705
Db 712 caggttcacaccccttcgttcacaccccttcacaccccttcacaccccttcacaccccttcacac 771
Qy 706 ctctcgtagcttcacgtgctgaacatgatcaggtgctcaggtgctcaggtgctcaggtgctcag 765
Db 772 atcagcgaacacagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 831
Qy 766 togtgcgcggggcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 825
Db 832 acggtcgcggggc-----agcacagcacattcagcagcagcagcagcagcagcagcagcagcagc 885
Qy 826 accgccagagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 885
Db 886 cagcgcctgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 945
Qy 886 tggatgccacacagattcggagatcatggtgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 945
Db 946 tgggtgcctaccacgtgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 1005
Qy 946 aggtcctactcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 1005
Db 1006 cgcctcctcatgacttctaccactacttctacatggtgacacacacacacacacacacacacac 1065
Qy 1006 agctcgcgtcatcaaccgcctcctgcagcaggtgtcctcgcagcaggttgcgcgcgcgcgcgcgc 1065
Db 1066 agctcaccatacaaccacacacacacacacacacacacacacacacacacacacacacacacac 1125
Qy 1066 gtgcaggtgctgtgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgcgc 1117
Db 1126 ctggccacacgtgcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgtcgt 1177
```

## RESULT 6

AAH50766

ID AAH50766 standard; cDNA; 444 BP.

XX

AC AAH50766;  
XX 23-AUG-2001 (first entry)  
XX Human tumour associated cDNA #95.  
DE  
XX  
XX Human; cancer specific gene expression; gene therapy;  
KW age related differential expression; ss.  
XX  
XX Homo sapiens.  
XX WO200136685-A2.  
XX 25-MAY-2001.  
XX 17-NOV-2000; 2000WO-US31809.  
XX 17-NOV-1999; 99US-0166056.  
PR 17-NOV-1999; 99US-0166106.  
XX (NYXI-) NYXIS NEURO THERAPIES INC.  
XX Kroes RA, Moskal JR, Yamamoto H;  
PI WPI; 2001-355647/37.  
XX  
XX Novel nucleic acid molecules differentially expressed in brain cancers,  
PT useful for ascertaining propensity of cell for malignant phenotype or  
PT ascertaining suitability of anti-neoplastic drug candidate -  
XX Claim 28; Page 50; 82pp; English.  
XX

CC The present invention provides the sequences of 184 cDNA fragments which  
CC are differentially expressed in cancer cell depending on the age of the  
CC patient. They can be used to diagnose and identify treatments for  
CC cancers, particularly brain cancers such as haemangioblastoma, teratoma,  
CC haemangioma, glioblastoma, schwannoma, osteoma and pinealoma. The  
CC present sequence is a cancer-associated cDNA of the invention.  
XX

Sequence 444 BP; 95 A; 113 C; 94 G; 142 T; 0 other;

Query Match 11.6%; Score 158.6; DB 22; Length 444;  
Best Local Similarity 97.6%; Pred. No. 3.2e-28;  
Matches 161; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 848 tottctgaggtgattgtgtgacattgcccgtatggtgagtcacacacagattcggga 907  
Db 267 tctgccagggcgtgattgtgtgacattgcccgtatggtgagtcacacacagattcggga 326  
Qy 908 ggtatcgtgctggcggcgaac 967  
Db 327 ggtatcgtgctggcggcgaac 386  
Qy 968 tgatcctctccctctctcgtgagacgttttttactcagctcgg 1012  
Db 387 tgatcctctccctctcgtgagacgttttttactcagctcgg 431

## RESULT 7

AAF85448

ID AAF85448 standard; cDNA; 1203 BP.

XX

AC AAF85448;

XX

XX 23-JUL-2001 (first entry)

XX

XX Nucleotide sequence of a rabbit motilin receptor polypeptide.

XX Motilin receptor; gastrointestinal disease; gastric motility disorder;  
KW gastroparesis; irritable bowel syndrome; diarrhoea; ss.  
XX

OS Oryctolagus cuniculus.















Db	621	cct	623	
RESULT 14				
ID	AAF85107 standard; DNA; 729 BP.			
XX				
AC	AAF85107;			
XX				
DT	09-JUL-2001 (first entry)			
XX				
DE	Nucleotide sequence of human g-protein coupled receptor PFI-002.			
XX				
KW	G-protein coupled receptor; obesity; signal transduction; diabetes; metabolic disease; neurological disease; psychotherapy; dermatology; urogenital disease; inflammation; cancer; tissue repair; photoaging; skin pigmentation; frailty; osteoporosis; cardiovascular disease; gastrointestinal disease; infection; allergy; respiratory disease; sensory organ disorder; sleep disorder; hair loss; gene therapy; PFI-002; ss.			
XX				
OS	Homo sapiens.			
XX				
FH	Key			
FT	Location/Qualifiers			
FT	1..729			
FT	/*tag= a			
FT	/product= "g-protein coupled receptor"			
XX				
PN	EP1090990-A1.			
XX				
PD	11-APR-2001.			
XX				
PF	06-OCT-2000; 2000EP-0308852.			
XX				
PR	08-OCT-1999; 99GB-0023888.			
XX				
PA	(PFIZ ) PFIZER LTD.			
PA	(PFIZ ) PFIZER INC.			
PI	Harland L;			
XX				
XX	WPI: 2001-302046/32.			
DR	P-PSDB; AAB68333.			
XX				
PT	New human G-protein coupled receptor (GPCR) polynucleotides and			
PT	polypeptides, for screening modulators of the polypeptide useful in			
PT	treating diseases associated with signal transduction, e.g. cancer,			
PT	inflammation, or especially, obesity			
XX				
PS	Claim 1; Page 42; 53pp; English.			
XX				
CC	The present sequence encodes a human G-protein coupled receptor. The			
CC	G-protein coupled receptor polynucleotide and polypeptide are useful			
CC	as pharmaceuticals or in the manufacture of medicaments for the			
CC	treatment of obesity. They are useful in the diagnosis and treatment			
CC	of diseases and disorders associated with signal transduction such as			
CC	obesity, diabetes and metabolic disease, neurological disease, cancer, tissue			
CC	psychotherapeutics, urogenital disease, inflammation, cancer, tissue			
CC	repair, dermatology, skin pigmentation, photoaging, frailty,			
CC	osteoporosis, cardiovascular disease, gastrointestinal disease,			
CC	infection, allergy and respiratory disease, sensory organ disorders,			
CC	sleep disorders and hair loss. The polynucleotide may also be useful			
CC	in gene therapy.			
XX				
SQ	Sequence 729 BP; 135 A; 245 C; 167 G; 182 T; 0 other;			
Query Match 6.68; Score 89.4; DB 22; Length 729;				
Best Local Similarity 54.4%; Pred. No. 7.7e-12;				
Matches 202; Conservative 0; Mismatches 166; Indels 3; Gaps 1;				
Qy	137	tgagggaacagcgccaccattcggtcaccaggtgctgcagagaagaagatacttgaga	196	
XXXXXX				

